LISTING OF THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously presented) A climate chamber comprising:

a housing defining a climate compartment,

an analysis device arranged at least partially in the climate compartment for analyzing a sample,

an inlet opening provided in the housing for supplying a conditioning medium flow, and

a directing device for directing the conditioning medium flow,

wherein the directing device is configured to direct the conditioning medium flow to flow at least partially against a sample carrier arranged in the climate compartment.

2. (Cancelled).

3. (Previously presented) The climate chamber according to claim 1, wherein said medium flow is directed such that the medium flow flows against a lower side of the sample carrier.

4. (Previously presented) The climate chamber according to claim 1, wherein said inlet opening is arranged laterally offset below the sample carrier when the sample carrier is horizontally arranged.

5. (Previously presented) The climate chamber according to claim 1, further comprising an approach flow angle (α) of 30°-60° relative to the sample carrier.

6. (Previously presented) The climate chamber according to claim 1, wherein said medium flow is directed such that at least 50 %-70 % of the medium flow flows against the analysis device and/or the sample carrier.

7. (Previously presented) The climate chamber according to claim 1, further comprising condensate-sensitive components of the analysis device being located in the medium flow.

8. (Previously presented) The climate chamber according to claim 1, further comprising a temperature sensor arranged near the sample carrier.

9. (Previously presented) The climate chamber according to claim 1, further comprising an outlet opening provided in the housing, wherein said outlet opening being arranged substantially opposite the inlet opening.

10. (Previously presented) The climate chamber according to claim 1, wherein the housing is configured such that it promotes an optimum flow.

11. (Previously presented) The climate chamber according to claim 1, further comprising adjacent housing walls arranged at an angle of at least 90° relative to each other.

12. (Withdrawn) The climate chamber according to claim 1 having a climate control system comprising a climate chamber, said climate chamber comprising a housing defining a climate compartment, an analysis device arranged at least partially in the climate compartment for analyzing the sample, and an inlet opening provided in the housing for supplying a conditioning medium flow, wherein the medium flow flows at least partially against the analysis device and/or a sample carrier arranged in the climate compartment,

wherein the inlet opening has connected therewith a climate control device; a channel through which flows a gaseous medium which is to be conditioned; a steam chamber having an inlet opening and an outlet opening connected with said channel; a steam generator connected with said steam chamber; and a controller arranged at the inlet opening and/or the outlet opening for controlling the quantity of steam fed from the steam chamber to the channel.

13. (Withdrawn) The climate control system according to claim 12, wherein said controller is adapted to control the opening cross section of the inlet opening and/or the outlet opening.

14. (Withdrawn) The climate control system according to claim 12, wherein the inlet opening is connected with the channel such that a portion of the medium to be conditioned flows into the steam chamber.

15. (Withdrawn) The climate control system according to claim 12, wherein the steam generator comprises a heater for heating the medium to be evaporated.

16. (Withdrawn) The climate control system according to claim 12, further comprising a flow-producer for producing the medium flow in the channel.

17. (Withdrawn) The climate control system according to claim 12, further comprising a filter connected with the channel

18. (Withdrawn) The climate control system according to claim 12, further comprising a conditioner connected with the channel.

19. (Previously presented) A climate chamber comprising:

a climate compartment defined by a front wall, a rear wall, a top wall, a bottom wall, a first plurality of side walls, and a second plurality of side walls,

an analysis device arranged at least partially in the climate compartment for analyzing a sample disposed in a sample carrier, the analysis device having an optical device and an illumination device, and

an inlet opening defined in one of the first plurality of side walls, the inlet opening being configured to supply a conditioning medium flow against the optical device, the illumination device, and a lower side of the sample carrier at a flow approach angle relative to the horizontal between 30° and 60°.

20. (Previously presented) The climate chamber according to claim 19, wherein the first plurality of side walls are at an angle of more than 90° relative to each other and the first plurality of side walls are at an angle of more than 90° relative to each other.